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# METHOD AND SYSTEM FOR IMPROVING DATA TRANSMISSION AND STORAGE OF MARKUP LANGUAGE DOCUMENTS

## CROSS-REFERENCE TO RELATED APPLICATIONS

Not Applicable.

STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT

Not Applicable.

## FIELD OF THE INVENTION

The present invention relates generally to a method for compressing data in a computer system, and more particularly, to such a method and system that improves the transmission and storage of documents that utilize markup languages.

## BACKGROUND OF THE INVENTION

Markup languages provide formatting information necessary for Web browsers to display documents found on the World Wide Web within the Internet. Commonly used markup languages include Hypertext Markup Language (HTML) and Extensible Markup Language (XML). A document formatted or written in a markup language contains two types of information - formatting information and content information. "Markup" refers to sets of commands or tags that describe to the web browser how to format and layout content information on a page. The content data consists of readable information characters typically encoded according to the American Standard for Information Interchange (ASCII) that is actually displayed to a user. The markup commands or "tags" typically consist of multiple ASCII characters that describe the format for the content information to be displayed. For example, a tag for creating a table in a document would

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start with an opening tag <TABLE> followed by the content information for the table and then closed by an end tag </TABLE>.

As markup language documents are transmitted and stored on the World Wide Web, their binary representations may be compressed to facilitate efficient transmission of the data. Conventional compression techniques reduce the size of the binary markup language document representation that reduces the time required to transmit and the space required to store the document. Each character within a markup language document is weighed equally when converted to its binary representation. Many markup tags, however, contain multiple characters to describe a particular format type. For example, using the tag (FONT FACE = "ARIAL" SIZE = 2 COLOR = "#339966") describes the font, its size and color for text to be displayed to the user. Each character within that markup tag would be translated to a binary representation that would be further compressed using conventional compression algorithms. However, using multiple characters to establish a particular format takes up more storage and requires a larger bandwidth to transmit such a document. Furthermore, many markup tags are necessary to properly display a document resulting in an increased amount of storage necessary to store such a document and to transmit the document.

Markup language tags having multiple characters to represent certain formats are said to exhibit a high degree of redundancy or a low information entropy. This leads to data representing character formats having the same "value" as the character information itself. This result produces a document with many formatting characters associated with a fewer number of information characters. Currently, there is no meaningful method for describing the markup language tags in proper proportion to the content data. For example, to show a bold character you would need the

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opening tag <B> the character data, and the closing tag </B>. Thus, describing character data in a bold format would require seven characters to do so.

Low bandwidth applications or transmission systems sending large amounts of information require efficient compression of information to the maximum extent possible. Current compression techniques suitable for applications that do not have bandwidth limitations may continue to be acceptable solutions for that environment. However, narrow bandwidth applications require additional methods and techniques to optimize compression of data and its associated formatting information to achieve efficient transmission. One such narrow bandwidth application is transmitting information via satellite where bandwidth space is limited.

Current compression techniques are also adequate to serve hardware configurations having large amounts of memory to store markup language documents. However, as more devices are introduced to receive markup language files and display such information to a user, space may become limited in such devices. These devices may include hand-held personal data assistants (PDAs) or a cellular telephones.

Accordingly, there exists a need to optimize the storage and transmission of documents formatted in markup languages. Moreover, there is a need for such a method that is more efficient, more economical and faster than conventional methods for compressing data in a markup language format.

#### SUMMARY OF THE INVENTION

Generally described, a method in a computer system for improving data transmission of markup language documents that includes markup tags and information characters is provided. In accordance with the method, markup tags in the document are converted to tokens and a token

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stream is created. The token stream is then compressed using a compression algorithm. Then, the token stream is decompressed using the compression algorithm and the markup tags are recreated from the token stream.

In another aspect of the present invention, a method in a computer system is provided for improving data transmission of markup language documents. The method includes converting markup tags to tokens and creating a token stream.

A method and system are provided for improving the transmission and storage of documents utilizing markup languages. The system converts the markup language tags to tokens and combines the tokens with the content information to create a token stream. The token stream is further compressed and stored on a device or transmitted over a communications network. The compressed token stream may then be decompressed and de-tokenized to return the markup language document to its original content form. The method may be performed on a computing device or over the transmission network.

#### BRIEF DESCRIPTION OF THE DRAWINGS

The objectives and advantages of the present invention will become readily apparent to those skilled in the art from the following detailed description of the drawings, in which:

FIG. 1 is a block diagram illustrating a computing environment for implementing the present invention;

FIG. 2 is a block diagram illustrating a network environment for implementing the present invention;

FIG. 3 is a block diagram further illustrating network environment in FIG.2 for practicing the present invention; and

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FIG. 4 is a flow diagram illustrating a preferred method for improving data transmission and storage of markup language documents in accordance with the present invention.

DETAILED DESCRIPTION OF THE INVENTION

The present invention provides a method and system for improving the transmission and storage of documents utilizing markup languages. FIG. 1 is a block diagram illustrating a typical computing device 10 in which invention may be implemented. The computing device 10 is an example of a suitable computing environment and is not intended to suggest any limitation as to the scope of use or functionality of the present invention. The present invention is operational with numerous general purpose or special purpose computer systems. Examples of well known computing systems that are suitable for use with the present invention include, but are not limited to, personal computers, server computers, hand-held or laptop devices, multiprocessor systems, microprocessor-based systems, programable consumer electronics, network PCs, mini computers, mainframe computers, distributed computing environments that include any of the above systems or devices, and the like.

The invention may be described in the general context of computer-executable instructions such as program modules, being executed by a computer. Generally, program modules include routines, programs, objects, components and data structures, that perform particular tasks or implement particular abstract data types. The invention may also be practiced in distributed computing environments where tasks are performed by remote processing devices that are linked through a communications network. In a distributed computing environment, program modules may be located in both local and remote computer storage media including memory storage devices.

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Referring back to FIG. 1, computing device 10 typically includes memory 12, processor 14, and input/output interface 16. Input/output interface 16 may include a number of input devices such as a keyboard, mouse, pen, voice input devices or touch input devices. The input/output interface 16 may also include various output devices including a display, speakers, or a printer. The input/output interface 16 also includes communications connections that allow the computing device to communicate with other devices. The communication connections may include numerous communication media. Communication media may include, but are not limited to, wired media such as a wire network or direct wire connection, and wireless media such as acoustic, RF, infrared and other wireless media.

As described in greater detail below, the present invention may be implemented in a single computing device or across multiple computing devices through a computer network. As shown in FIG. 2, a block diagram illustrates multiple devices 18 in communication with one another either through a network 20 or through a direct communication link between the devices 18. The devices 18 may be personal computers, servers, routers, network PCs, peer devices, or common network nodes, and they typically include many or all of the elements described above relative to the computing device 10 in FIG. 1. The present invention may be performed using a preferred method that is described in greater detail below using one device or across multiple devices within a network. FIG. 3 is a block diagram illustrating a preferred network embodiment for practicing the method of the present invention. As devices 18 (FIG. 2) are coupled with a network 20, the network 20 may include servers 22 that are in communication with one another. The communication may be implemented through a series of wired connections 24 or may be a wireless type connection through a satellite network 26. As would be understood, devices 18 (FIG. 2) may also be in direct

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communication with the satellite network 26 to facilitate direct communication between two or more devices 18. Alternatively, devices 18 may be in communication directly with a satellite network 26 to communicate with a server 22 that in turn communicates with another device 18. Combinations of the above are all included within the scope of the present invention.

FIG. 4 is a flow diagram illustrating a preferred method for improving data transmission and storage of markup language documents. At step 30, the system converts the tags within the markup language document to tokens. As mentioned above, two types of information are typically included in markup language documents. First, content information that includes the readable information characters that the user sees and secondly, the markup instructions or tags that tell the displaying program how to visually represent the content information characters. The content information characters within the document may be considered to already each be a single token. Converting the tags to tokens is accomplished by parsing the document, according to well known techniques, to recognize the markup language tags. A lookup table is then utilized by the system to match the markup language tags to an appropriate token.

At step 32, the system creates a token stream from the converted markup tags and the non-tag characters. The token stream is placed into another document. At step 34, the token stream is compressed by encoding the sequence of tokens into transmittable symbols. Each symbol is a unique sequence of binary bits. The symbol sequences are not all the same size and are carefully chosen so that those symbols that appear most frequently are encoded with the fewest bits. Furthermore, the bit streams are such that no concatenation of valid strings can be confused with some other string and that no initial substring of a valid string is equal to a shorter valid string. A variety of well known compression algorithms may be employed to compress the token stream.

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Huffman coding is a preferred compression technique. A slight improvement may be realized by using a similar technique, arithmetic coding, to compress the token stream. Additional compression encoding methods include substitution codes such as LZ77, LZ78, and LZW.

At this point, the compressed string of binary information is ready for transmission. Systems receiving this binary representation decompress the binary stream and recreate the markup language document at the receiving system.

At step 36, the token stream is decompressed at the receiving system by performing the same encoding algorithm used in the compression at step 34. At step 38, the markup tags are recreated utilizing the same table used to create the original token stream resulting in a markup language document having tags and content character information. Markup languages are not case sensitive and are not sensitive to placement of spaces within the tags. As such, the case and precise spacing of information within the tag is discarded when creating the token stream at step 32. This may result in a reproduced document, at step 38, that differs in these attributes from the original document. However, the reproduced document has the exact same semantic meaning and produces the same display representation for the user.

In another embodiment, the markup recreation at step 38 may not be needed. As a first step in creating or converting the markup tags to tokens, the document must be parsed to recognize the tag information and create a document containing the resulting tokens. A markup language viewing or printing program may be programmed to recognize the token stream instead of the markup language tags. In other words, the displaying of the content information is driven by the token stream and not the markup tags. However, most viewing and printing programs must have

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the capability of displaying documents using markup tags and thus will have to retain the ability to parse the token stream to recreate the markup tags.

As mentioned above, a table is utilized to assign the markup language tags to tokens. This token look-up table assigns token values to each sequence of characters representing a tag. For example, HTML tags include a start tag, an end tag, and HTML attributes that are each assigned to a particular token. Further, this token look-up table is extensible to include XML tags and their corresponding attributes created by users. Additionally, the extensible nature of this table allows for future expansion of new HTML tags and other unforeseen markup language tags and attributes. That is, the extensible nature of the token look-up table allows users to expand the table. A preferred embodiment does this by reserving a number of token codes for definition by the tag to token converter. Table A provided below illustrates a preferred token look-up table. The table assigns content characters, tag, and attribute names to token values. No particular sequence of assignments is optimal, and thus, the table is completely arbitrary and one assignment is as good as any.

Table B provided below illustrates a token compression table utilized by the compression algorithm created by the compression algorithm as described above at step 34. This table takes the token stream and creates an appropriate Huffman code. The assignment of the variable length bit strings to token values is critical to the performance of a preferred method. The assignments in the compression table are chosen based upon the statistical frequencies of the various tokens encountered in an actual sample of HTML and XML coded documents.

In operation, a user creates a HTML or XML document that is placed on the internet or the World Wide Web. The document is made available on the web and the markup language tags within the document are converted to tokens utilizing the algorithm stated above. The converted tags

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are combined with the character information to create a token stream. This token stream is further compressed using a of substitution code, preferably Huffman coding. The document is now compressed to the point where limited bandwidth applications may be able to transmit and receive the document. One such example of a narrow bandwidth application is transmitting documents via a satellite network. Users receiving the document then decompress the document using the same Huffman code. Then, the markup tags are recreated using the same algorithm to create the tokens. The document is now ready for display at the receiving units or receiving device location.

The present invention provides a number of advantages. Tokenizing the HTML code extracted from the World Wide Web has measured a 25% compression improvement over standard compression methods alone. When tested with a sample of 500 HTML and XML files extracted from the World Wide Web, the tokenizing process on average, converted each 1000 characters of HTML source code to 832 tokens. Thus, the tokenizing step alone can compress the size of the document's binary representation. Further converting the markup language tags to tokens gives the tag information the same semantic weight as the character content information. Thus, the same document can be compressed to a higher degree resulting in a smaller file and faster transmission.

Although the invention has been described with reference to a preferred embodiment as illustrated in the attached drawing figures, it is noted that substitutions may be made and equivalents employed herein without departing from the scope of the invention as recited in the claims.

## Table A.

Token (hexadecimal)	Symbol
0x000	Content Code 0x00
0x001	Content Code 0x01
0x002	Content Code 0x02
0x003	Content Code 0x03
0x004	Content Code 0x04
0x005	Content Code 0x05
0x006	Content Code 0x06
0x007	Content Code 0x07
0x008	Content Code 0x08
0x009	Content Code 0x09
0x00A	Content Code 0x0A
0x00B	Content Code 0x0B
0x00C	Content Code 0x0C
0x00D	Content Code 0x0D
0x00E	Content Code 0x0E
0x00F	Content Code 0x0F
0x010	Content Code 0x10
0x011	Content Code 0x11
0x012	Content Code 0x12
0x013	Content Code 0x13
0x014	Content Code 0x14
0x015	Content Code 0x15
0x016	Content Code 0x16
0x017	Content Code 0x17
0x018	Content Code 0x18
0x019	Content Code 0x19
0x01A	Content Code 0x1A

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0x01B	Content Code 0x1B
0x01C	Content Code 0x1C
0x01D	Content Code 0x1D
0x01E	Content Code 0x1E
0x01F	Content Code 0x1F
0x020	Content Character " "
0x021	Content Character "!"
0x022	Content Character """
0x023	Content Character "#"
0x024	Content Character "\$"
0x025	Content Character "%"
0x026	Content Character "&"
0x027	Content Character ""
0x028	Content Character "("
0x029	Content Character ")"
0x02A	Content Character "*"
0x02B	Content Character "+"
0x02C	Content Character ","
0x02D	Content Character "-"
0x02E	Content Character "."
0x02F	Content Character "/"
0x030	Content Character "0"
0x031	Content Character "1"
0x032	Content Character "2"
0x033	Content Character "3"
0x034	Content Character "4"
0x035	Content Character "5"
0x036	Content Character "6"
0x037	Content Character "7"

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0x038	Content Character "8"
0x039	Content Character "9"
0x03A	Content Character ":"
0x03B	Content Character ";"
0x03C	Content Character "<"
0x03D	Content Character "="
0x03E	Content Character ">"
0x03F	Content Character "?"
0x040	Content Character "@"
0x041	Content Character "A"
0x042	Content Character "B"
0x043	Content Character "C"
0x044	Content Character "D"
0x045	Content Character "E"
0x046	Content Character "F"
0x047	Content Character "G"
0x048	Content Character "H"
0x049	Content Character "I"
0x04A	Content Character "J"
0x04B	Content Character "K"
0x04C	Content Character "L"
0x04D	Content Character "M"
0x04E	Content Character "N"
0x04F	Content Character "O"
0x050	Content Character "P"
0x051	Content Character "Q"
0x052	Content Character "R"
0x053	Content Character "S"
0x054	Content Character "T"

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0x055	Content Character "U"
0x056	Content Character "V"
0x057	Content Character "W"
0x058	Content Character "X"
0x059	Content Character "Y"
0x05A	Content Character "Z"
0x05B	Content Character "["
0x05C	Content Character "\"
0x05D	Content Character "]"
0x05E	Content Character "^"
0x05F	Content Character "_"
0x060	Content Character "`"
0x061	Content Character "a"
0x062	Content Character "b"
0x063	Content Character "c"
0x064	Content Character "d"
0x065	Content Character "e"
0x066	Content Character "f"
0x067	Content Character "g"
0x068	Content Character "h"
0x069	Content Character "i"
0x06A	Content Character "j"
0x06B	Content Character "k"
0x06C	Content Character "I"
0x06D	Content Character "m"
0x06E	Content Character "n"
0x06F	Content Character "o"
0x070	Content Character "p"
0x071	Content Character "q"

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0x072	Content Character "r"
0x073	Content Character "s"
0x074	Content Character "t"
0x075	Content Character "u"
0x076	Content Character "v"
0x077	Content Character "w"
0x078	Content Character "x"
0x079	Content Character "y"
0x07A	Content Character "z"
0x07B	Content Character "{"
0x07C	Content Character " "
0x07D	Content Character "}"
0x07E	Content Character "~"
0x07F	Content Code 0x7F
0x080	Content Code 0x80
0x081	Content Code 0x81
0x082	Content Code 0x82
0x083	Content Code 0x83
0x084	Content Code 0x84
0x085	Content Code 0x85
0x086	Content Code 0x86
0x087	Content Code 0x87
0x088	Content Code 0x88
0x089	Content Code 0x89
0x08A	Content Code 0x8A
0x08B	Content Code 0x8B
0x08C	Content Code 0x8C
0x08D	Content Code 0x8D
0x08E	Content Code 0x8E

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0x08F	Content Code 0x8F
0x090	Content Code 0x90
0x091	Content Code 0x91
0x092	Content Code 0x92
0x093	Content Code 0x93
0x094	Content Code 0x94
0x095	Content Code 0x95
0x096	Content Code 0x96
0x097	Content Code 0x97
0x098	Content Code 0x98
0x099	Content Code 0x99
0x09A	Content Code 0x9A
0x09B	Content Code 0x9B
0x09C	Content Code 0x9C
0x09D	Content Code 0x9D
0x09E	Content Code 0x9E
0x09F	Content Code 0x9F
0x0A0	Content Code 0xA0
0x0A1	Content Code 0xA1
0x0A2	Content Code 0xA2
0x0A3	Content Code 0xA3
0x0A4	Content Code 0xA4
0x0A5	Content Code 0xA5
0x0A6	Content Code 0xA6
0x0A7	Content Code 0xA7
0x0A8	Content Code 0xA8
0x0A9	Content Code 0xA9
0x0AA	Content Code 0xAA
0x0AB	Content Code 0xAB

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0x0AC	Content Code 0xAC
0x0AD	Content Code 0xAD
0x0AE	Content Code 0xAE
0x0AF	Content Code 0xAF
0x0B0	Content Code 0xB0
0x0B1	Content Code 0xB1
0x0B2	Content Code 0xB2
0x0B3	Content Code 0xB3
0x0B4	Content Code 0xB4
0x0B5	Content Code 0xB5
0x0B6	Content Code 0xB6
0x0B7	Content Code 0xB7
0x0B8	Content Code 0xB8
0x0B9	Content Code 0xB9
0x0BA	Content Code 0xBA
0x0BB	Content Code 0xBB
0x0BC	Content Code 0xBC
0x0BD	Content Code 0xBD
0x0BE	Content Code 0xBE
0x0BF	Content Code 0xBF
0x0C0	Content Code 0xC0
0x0C1	Content Code 0xC1
0x0C2	Content Code 0xC2
0x0C3	Content Code 0xC3
0x0C4	Content Code 0xC4
0x0C5	Content Code 0xC5
0x0C6	Content Code 0xC6
0x0C7	Content Code 0xC7
0x0C8	Content Code 0xC8

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0x0C9	Content Code 0xC9
0x0CA	Content Code 0xCA
0x0CB	Content Code 0xCB
0x0CC	Content Code 0xCC
0x0CD	Content Code 0xCD
0x0CE	Content Code 0xCE
0x0CF	Content Code 0xCF
0x0D0	Content Code 0xD0
0x0D1	Content Code 0xD1
0x0D2	Content Code 0xD2
0x0D3	Content Code 0xD3
0x0D4	Content Code 0xD4
0x0D5	Content Code 0xD5
0x0D6	Content Code 0xD6
0x0D7	Content Code 0xD7
0x0D8	Content Code 0xD8
0x0D9	Content Code 0xD9
0x0DA	Content Code 0xDA
0x0DB	Content Code 0xDB
0x0DC	Content Code 0xDC
0x0DD	Content Code 0xDD
0x0DE	Content Code 0xDE
0x0DF	Content Code 0xDF
0x0E0	Content Code 0xE0
0x0E1	Content Code 0xE1
0x0E2	Content Code 0xE2
0x0E3	Content Code 0xE3
0x0E4	Content Code 0xE4
0x0E5	Content Code 0xE5

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0x0E6	Content Code 0xE6
0x0E7	Content Code 0xE7
0x0E8	Content Code 0xE8
0x0E9	Content Code 0xE9
0x0EA	Content Code 0xEA
0x0EB	Content Code 0xEB
0x0EC	Content Code 0xEC
0x0ED	Content Code 0xED
0x0EE	Content Code 0xEE
0x0EF	Content Code 0xEF
0x0F0	Content Code 0xF0
0x0F1	Content Code 0xF1
0x0F2	Content Code 0xF2
0x0F3	Content Code 0xF3
0x0F4	Content Code 0xF4
0x0F5	Content Code 0xF5
0x0F6	Content Code 0xF6
0x0F7	Content Code 0xF7
0x0F8	Content Code 0xF8
0x0F9	Content Code 0xF9
0x0FA	Content Code 0xFA
0x0FB	Content Code 0xFB
0x0FC	Content Code 0xFC
0x0FD	Content Code 0xFD
0x0FE	Content Code 0xFE
0x0FF	Content Code 0xFF
0x100	HTML Tag " <a"< td=""></a"<>
	HTML Tag " <abbr"< th=""></abbr"<>

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HTML Tag "<ACRONYM"

0x102

0x103	HTML Tag " <address"< th=""></address"<>
0x104	HTML Tag " <applet"< td=""></applet"<>
0x105	HTML Tag " <area"< td=""></area"<>
0x106	HTML Tag " <b"< td=""></b"<>
0x107	HTML Tag " <base"< td=""></base"<>
0x108	HTML Tag " <basefont"< td=""></basefont"<>
0x109	HTML Tag " <bdo"< td=""></bdo"<>
0x10A	HTML Tag " <big"< td=""></big"<>
0x10B	HTML Tag " <blockquote"< td=""></blockquote"<>
0x10C	HTML Tag " <body"< td=""></body"<>
0x10D	HTML Tag " <br"< td=""></br"<>
0x10E	HTML Tag " <button"< td=""></button"<>
0x10F	HTML Tag " <caption"< td=""></caption"<>
0x110	HTML Tag " <center"< td=""></center"<>
0x111	HTML Tag " <cite"< td=""></cite"<>
0x112	HTML Tag " <code"< td=""></code"<>
0x113	HTML Tag " <col"< td=""></col"<>
0x114	HTML Tag " <colgroup"< td=""></colgroup"<>
0x115	HTML Tag " <dd"< td=""></dd"<>
0x116	HTML Tag " <del"< td=""></del"<>
0x117	HTML Tag " <dfn"< td=""></dfn"<>
0x118	HTML Tag " <dir"< td=""></dir"<>
0x119	HTML Tag " <div"< td=""></div"<>
0x11A	HTML Tag " <dl"< td=""></dl"<>
0x11B	HTML Tag " <dt"< td=""></dt"<>
0x11C	HTML Tag " <em"< td=""></em"<>
0x11D	HTML Tag " <fieldset"< td=""></fieldset"<>
0x11E	HTML Tag " <font"< td=""></font"<>
0x11F	HTML Tag " <form"< td=""></form"<>

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0x120	HTML Tag " <frame"< th=""></frame"<>
0x121	HTML Tag " <frameset"< td=""></frameset"<>
0x122	HTML Tag " <h1"< td=""></h1"<>
0x123	HTML Tag " <h2"< td=""></h2"<>
0x124	HTML Tag " <h3"< td=""></h3"<>
0x125	HTML Tag " <h4"< td=""></h4"<>
0x126	HTML Tag " <h5"< td=""></h5"<>
0x127	HTML Tag " <h6"< td=""></h6"<>
0x128	HTML Tag " <head"< td=""></head"<>
0x129	HTML Tag " <hr"< td=""></hr"<>
0x12A	HTML Tag " <html"< td=""></html"<>
0x12B	HTML Tag " <i"< td=""></i"<>
0x12C	HTML Tag " <iframe"< td=""></iframe"<>
0x12D	HTML Tag " <img"< td=""></img"<>
0x12E	HTML Tag " <input"< td=""></input"<>
0x12F	HTML Tag " <ins"< td=""></ins"<>
0x130	HTML Tag " <isindex"< td=""></isindex"<>
0x131	HTML Tag " <kbd"< td=""></kbd"<>
0x132	HTML Tag " <label"< td=""></label"<>
0x133	HTML Tag " <legend"< td=""></legend"<>
0x134	HTML Tag " <li"< td=""></li"<>
0x135	HTML Tag " <link"< td=""></link"<>
0x136	HTML Tag " <map"< td=""></map"<>
0x137	HTML Tag " <menu"< td=""></menu"<>
0x138	HTML Tag " <meta"< td=""></meta"<>
0x139	HTML Tag " <noframes"< td=""></noframes"<>
0x13A	HTML Tag " <noscript"< td=""></noscript"<>
0x13B	HTML Tag " <object"< td=""></object"<>
0x13C	HTML Tag " <ol"< td=""></ol"<>

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0x13D	HTML Tag " <optgroup"< th=""></optgroup"<>
0x13E	HTML Tag " <option"< td=""></option"<>
0x13F	HTML Tag " <p"< td=""></p"<>
0x140	HTML Tag " <param"< td=""></param"<>
0x141	HTML Tag " <pre"< td=""></pre"<>
0x142	HTML Tag " <q"< td=""></q"<>
0x143	HTML Tag " <s"< td=""></s"<>
0x144	HTML Tag " <samp"< td=""></samp"<>
0x145	HTML Tag " <script"< td=""></script"<>
0x146	HTML Tag " <select"< td=""></select"<>
0x147	HTML Tag " <small"< td=""></small"<>
0x148	HTML Tag " <span"< td=""></span"<>
0x149	HTML Tag " <strike"< td=""></strike"<>
0x14A	HTML Tag " <strong"< td=""></strong"<>
0x14B	HTML Tag " <style"< td=""></style"<>
0x14C	HTML Tag " <sub"< td=""></sub"<>
0x14D	HTML Tag " <sup"< td=""></sup"<>
0x14E	HTML Tag " <table"< td=""></table"<>
0x14F	HTML Tag " <tbody"< td=""></tbody"<>
0x150	HTML Tag " <td"< td=""></td"<>
0x151	HTML Tag " <textarea"< td=""></textarea"<>
0x152	HTML Tag " <tfoot"< td=""></tfoot"<>
0x153	HTML Tag " <th"< td=""></th"<>
0x154	HTML Tag " <thead"< td=""></thead"<>
0x155	HTML Tag " <title"< td=""></title"<>
0x156	HTML Tag " <tr"< td=""></tr"<>
0x157	HTML Tag " <tt"< td=""></tt"<>
0x158	HTML Tag " <u"< td=""></u"<>
0x159	HTML Tag " <ul"< td=""></ul"<>

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0x15A	HTML Tag " <var"< th=""></var"<>
0x200	HTML End Tag ""
0x201	HTML End Tag ""
0x202	HTML End Tag ""
0x203	HTML End Tag ""
0x204	HTML End Tag ""
0x205	HTML End Tag ""
0x206	HTML End Tag ""
0x207	HTML End Tag ""
0x208	HTML End Tag ""
0x209	HTML End Tag ""
0x20A	HTML End Tag ""
0x20B	HTML End Tag ""
0x20C	HTML End Tag ""
0x20D	HTML End Tag ""
0x20E	HTML End Tag ""
0x20F	HTML End Tag ""
0x210	HTML End Tag ""
0x211	HTML End Tag ""
0x212	HTML End Tag ""
0x213	HTML End Tag ""
0x214	HTML End Tag ""
0x215	HTML End Tag ""
0x216	HTML End Tag ""
0x217	HTML End Tag ""
0x218	HTML End Tag ""
0x219	HTML End Tag ""
0x21A	HTML End Tag ""
0x21B	HTML End Tag ""

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0x21C	HTML End Tag ""
0x21D	HTML End Tag ""
0x21E	HTML End Tag ""
0x21F	HTML End Tag ""
0x220	HTML End Tag ""
0x221	HTML End Tag ""
0x222	HTML End Tag ""
0x223	HTML End Tag ""
0x224	HTML End Tag ""
0x225	HTML End Tag ""
0x226	HTML End Tag ""
0x227	HTML End Tag ""
0x228	HTML End Tag ""
0x229	HTML End Tag ""
0x22A	HTML End Tag ""
0x22B	HTML End Tag ""
0x22C	HTML End Tag ""
0x22D	HTML End Tag ""
0x22E	HTML End Tag "
0x22F	HTML End Tag ""
0x230	HTML End Tag ""
0x231	HTML End Tag ""
0x232	HTML End Tag ""
0x233	HTML End Tag ""
0x234	HTML End Tag ""
0x235	HTML End Tag ""
0x236	HTML End Tag ""
0x237	HTML End Tag ""
0x238	HTML End Tag ""

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0x239	HTML End Tag ""
0x23A	HTML End Tag ""
0x23B	HTML End Tag ""
0x23C	HTML End Tag ""
0x23D	HTML End Tag ""
0x23E	HTML End Tag ""
0x23F	HTML End Tag ""
0x240	HTML End Tag ""
0x241	HTML End Tag ""
0x242	HTML End Tag ""
0x243	HTML End Tag ""
0x244	HTML End Tag ""
0x245	HTML End Tag ""
0x246	HTML End Tag ""
0x247	HTML End Tag ""
0x248	HTML End Tag ""
0x249	HTML End Tag ""
0x24A	HTML End Tag ""
0x24B	HTML End Tag ""
0x24C	HTML End Tag ""
0x24D	HTML End Tag ""
0x24E	HTML End Tag "

"| 0x24F | HTML End Tag "" |
0x250	HTML End Tag ""
0x251	HTML End Tag ""
0x252	HTML End Tag ""
0x253	HTML End Tag "
0x254	HTML End Tag ""
0x255	HTML End Tag ""
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0x256	HTML End Tag "
0x257	HTML End Tag ""
0x258	HTML End Tag ""
0x259	HTML End Tag ""
0x25A	HTML End Tag ""
0x25B	HTML Tag closing ">"
0x400	HTML Attribute "ABBR"
0x401	HTML Attribute "ACCEPT-CHARSET"
0x402	HTML Attribute "ACCEPT"
0x403	HTML Attribute "ACCESSKEY"
0x404	HTML Attribute "ACTION"
0x405	HTML Attribute "ALIGN"
0x406	HTML Attribute "ALINK"
0x407	HTML Attribute "ALT"
0x408	HTML Attribute "ARCHIVE"
0x409	HTML Attribute "AXIS"
0x40A	HTML Attribute "BACKGROUND"
0x40B	HTML Attribute "BGCOLOR"
0x40C	HTML Attribute "BORDER"
0x40D	HTML Attribute "CELLPADDING"
0x40E	HTML Attribute "CELLSPACING"
0x40F	HTML Attribute "CHAR"
0x410	HTML Attribute "CHAROFF"
0x411	HTML Attribute "CHARSET"
0x412	HTML Attribute "CHECKED"
0x413	HTML Attribute "CITE"
0x414	HTML Attribute "CLASS"
0x415	HTML Attribute "CLASSID"
0x416	HTML Attribute "CLEAR"
<del></del>	

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0x417	HTML Attribute "CODE"
0x418	HTML Attribute "CODEBASE"
0x419	HTML Attribute "CODETYPE"
0x41A	HTML Attribute "COLOR"
0x41B	HTML Attribute "COLS"
0x41C	HTML Attribute "COLSPAN"
0x41D	HTML Attribute "COMPACT"
0x41E	HTML Attribute "CONTENT"
0x41F	HTML Attribute "COORDS"
0x420	HTML Attribute "DATA"
0x421	HTML Attribute "DATETIME"
0x422	HTML Attribute "DECLARE"
0x423	HTML Attribute "DEFER"
0x424	HTML Attribute "DIR"
0x425	HTML Attribute "DISABLED"
0x426	HTML Attribute "ENCTYPE"
0x427	HTML Attribute "FACE"
0x428	HTML Attribute "FOR"
0x429	HTML Attribute "FRAME"
0x42A	HTML Attribute "FRAMEBORDER"
0x42B	HTML Attribute "HEADERS"
0x42C	HTML Attribute "HEIGHT"
0x42D	HTML Attribute "HREF"
0x42E	HTML Attribute "HREFLANG"
0x42F	HTML Attribute "HSPACE"
0x430	HTML Attribute "HTTP-EQUIV"
0x431	HTML Attribute "ID"
0x432	HTML Attribute "ISMAP"

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0x434	HTML Attribute "LANG"
0x435	HTML Attribute "LANGUAGE"
0x436	HTML Attribute "LINK"
0x437	HTML Attribute "LONGDESC"
0x438	HTML Attribute "MARGINHEIGHT"
0x439	HTML Attribute "MARGINWIDTH"
0x43A	HTML Attribute "MAXLENGTH"
0x43B	HTML Attribute "MEDIA"
0x43C	HTML Attribute "METHOD"
0x43D	HTML Attribute "MULTIPLE"
0x43E	HTML Attribute "NAME"
0x43F	HTML Attribute "NOHREF"
0x440	HTML Attribute "NORESIZE"
0x441	HTML Attribute "NOSHADE"
0x442	HTML Attribute "NOWRAP"
0x443	HTML Attribute "OBJECT"
0x444	HTML Attribute "ONBLUR"
0x445	HTML Attribute "ONCHANGE"
0x446	HTML Attribute "ONCLICK"
0x447	HTML Attribute "ONDBLCLICK"
0x448	HTML Attribute "ONFOCUS"
0x449	HTML Attribute "ONKEYDOWN"
0x44A	HTML Attribute "ONKEYPRESS"
0x44B	HTML Attribute "ONKEYUP"
0x44C	HTML Attribute "ONLOAD"
0x44D	HTML Attribute "ONMOUSEDOWN"
0x44E	HTML Attribute "ONMOUSEMOVE"
0x44F	HTML Attribute "ONMOUSEOUT"
0x450	HTML Attribute "ONMOUSEOVER"

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0x451	HTML Attribute "ONMOUSEUP"
0x452	HTML Attribute "ONRESET"
0x453	HTML Attribute "ONSELECT"
0x454	HTML Attribute "ONSUBMIT"
0x455	HTML Attribute "ONUNLOAD"
0x456	HTML Attribute "PROFILE"
0x457	HTML Attribute "PROMPT"
0x458	HTML Attribute "READONLY"
0x459	HTML Attribute "REL"
0x45A	HTML Attribute "REV"
0x45B	HTML Attribute "ROWS"
0x45C	HTML Attribute "ROWSPAN"
0x45D	HTML Attribute "RULES"
0x45E	HTML Attribute "SCHEME"
0x45F	HTML Attribute "SCOPE"
0x460	HTML Attribute "SCROLLING"
0x461	HTML Attribute "SELECTED"
0x462	HTML Attribute "SHAPE"
0x463	HTML Attribute "SIZE"
0x464	HTML Attribute "SPAN"
0x465	HTML Attribute "SRC"
0x466	HTML Attribute "STANDBY"
0x467	HTML Attribute "START"
0x468	HTML Attribute "STYLE"
0x469	HTML Attribute "SUMMARY"
0x46A	HTML Attribute "TABINDEX"
0x46B	HTML Attribute "TARGET"
0x46C	HTML Attribute "TEXT"
0x46D	HTML Attribute "TITLE"

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0x46E	HTML Attribute "TYPE"
0x46F	HTML Attribute "USEMAP"
0x470	HTML Attribute "VALIGN"
0x471	HTML Attribute "VALUE"
0x472	HTML Attribute "VALUETYPE"
0x473	HTML Attribute "VERSION"
0x474	HTML Attribute "VLİNK"
0x475	HTML Attribute "VSPACE"
0x476	HTML Attribute "WIDTH"
0x500	HTML Attribute "ABBR" followed by "="
0x501	HTML Attribute "ACCEPT-CHARSET" followed by "="
0x502	HTML Attribute "ACCEPT" followed by "="
0x503	HTML Attribute "ACCESSKEY" followed by "="
0x504	HTML Attribute "ACTION" followed by "="
0x505	HTML Attribute "ALIGN" followed by "="
0x506	HTML Attribute "ALINK" followed by "="
0x507	HTML Attribute "ALT" followed by "="
0x508	HTML Attribute "ARCHIVE" followed by "="
0x509	HTML Attribute "AXIS" followed by "="
0x50A	HTML Attribute "BACKGROUND" followed by "="
0x50B	HTML Attribute "BGCOLOR" followed by "="
0x50C	HTML Attribute "BORDER" followed by "="
0x50D	HTML Attribute "CELLPADDING" followed by "="
0x50E	HTML Attribute "CELLSPACING" followed by "="
0x50F	HTML Attribute "CHAR" followed by "="
0x510	HTML Attribute "CHAROFF" followed by "="
0x511	HTML Attribute "CHARSET" followed by "="
0x512	HTML Attribute "CHECKED" followed by "="

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HTML Attribute "CITE" followed by "="

0x513

	0x514	HTML Attribute "CLASS" followed by "="	
	0x515	HTML Attribute "CLASSID" followed by "="	
	0x516	HTML Attribute "CLEAR" followed by "="	
	0x517	HTML Attribute "CODE" followed by "="	
	0x518	HTML Attribute "CODEBASE" followed by "="	
	0x519	HTML Attribute "CODETYPE" followed by "="	
	0x51A	HTML Attribute "COLOR" followed by "="	
	0x51B	HTML Attribute "COLS" followed by "="	
	0x51C	HTML Attribute "COLSPAN" followed by "="	
	0x51D	HTML Attribute "COMPACT" followed by "="	
	0x51E	HTML Attribute "CONTENT" followed by "="	
	0x51F	HTML Attribute "COORDS" followed by "="	
	0x520	HTML Attribute "DATA" followed by "="	
	0x521	HTML Attribute "DATETIME" followed by "="	
	0x522	HTML Attribute "DECLARE" followed by "="	
	0x523	HTML Attribute "DEFER" followed by "="	
	0x524 HTML Attribute "DIR" followed by "="	HTML Attribute "DIR" followed by "="	
	0x525	HTML Attribute "DISABLED" followed by "="	
	0x526	HTML Attribute "ENCTYPE" followed by "="	
	0x527	HTML Attribute "FACE" followed by "="	
	0x528	HTML Attribute "FOR" followed by "="	
	0x529	HTML Attribute "FRAME" followed by "="	
	0x52A	HTML Attribute "FRAMEBORDER" followed by "="	
	0x52B	HTML Attribute "HEADERS" followed by "="	
	0x52C	HTML Attribute "HEIGHT" followed by "="	
	0x52D	HTML Attribute "HREF" followed by "="	
	0x52E	HTML Attribute "HREFLANG" followed by "="	
	0x52F	HTML Attribute "HSPACE" followed by "="	
	0x530	HTML Attribute "HTTP-EQUIV" followed by "="	
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0x531	HTML Attribute "ID" followed by "="
0x532	HTML Attribute "ISMAP" followed by "="
0x533	HTML Attribute "LABEL" followed by "="
0x534	HTML Attribute "LANG" followed by "="
0x535	HTML Attribute "LANGUAGE" followed by "="
0x536	HTML Attribute "LINK" followed by "="
0x537	HTML Attribute "LONGDESC" followed by "="
0x538	HTML Attribute "MARGINHEIGHT" followed by "="
0x539	HTML Attribute "MARGINWIDTH" followed by "="
0x53A	HTML Attribute "MAXLENGTH" followed by "="
0x53B	HTML Attribute "MEDIA" followed by "="
0x53C	HTML Attribute "METHOD" followed by "="
0x53D	HTML Attribute "MULTIPLE" followed by "="
0x53E	HTML Attribute "NAME" followed by "="
0x53F	HTML Attribute "NOHREF" followed by "="
0x540	HTML Attribute "NORESIZE" followed by "="
0x541	HTML Attribute "NOSHADE" followed by "="
0x542	HTML Attribute "NOWRAP" followed by "="
0x543	HTML Attribute "OBJECT" followed by "="
0x544	HTML Attribute "ONBLUR" followed by "="
0x545	HTML Attribute "ONCHANGE" followed by "="
0x546	HTML Attribute "ONCLICK" followed by "="
0x547	HTML Attribute "ONDBLCLICK" followed by "="
0x548	HTML Attribute "ONFOCUS" followed by "="
0x549	HTML Attribute "ONKEYDOWN" followed by "="
0x54A	HTML Attribute "ONKEYPRESS" followed by "="
0x54B	HTML Attribute "ONKEYUP" followed by "="
0x54C	HTML Attribute "ONLOAD" followed by "="
0x54D	HTML Attribute "ONMOUSEDOWN" followed by "="

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0x54E	HTML Attribute "ONMOUSEMOVE" followed by "="	
0x54F	HTML Attribute "ONMOUSEOUT" followed by "="	
0x550	HTML Attribute "ONMOUSEOVER" followed by "="	
0x551	HTML Attribute "ONMOUSEUP" followed by "="	
0x552	HTML Attribute "ONRESET" followed by "="	
0x553	HTML Attribute "ONSELECT" followed by "="	
0x554	HTML Attribute "ONSUBMIT" followed by "="	
0x555	HTML Attribute "ONUNLOAD" followed by "="	
0x556	HTML Attribute "PROFILE" followed by "="	
0x557	HTML Attribute "PROMPT" followed by "="	
0x558	HTML Attribute "READONLY" followed by "="	
0x559	HTML Attribute "REL" followed by "="	
0x55A	HTML Attribute "REV" followed by "="	
0x55B	HTML Attribute "ROWS" followed by "="	
0x55C	HTML Attribute "ROWSPAN" followed by "="	
0x55D	HTML Attribute "RULES" followed by "="	
0x55E	HTML Attribute "SCHEME" followed by "="	
0x55F	HTML Attribute "SCOPE" followed by "="	
0x560	HTML Attribute "SCROLLING" followed by "="	
0x561	HTML Attribute "SELECTED" followed by "="	
0x562	HTML Attribute "SHAPE" followed by "="	
0x563	HTML Attribute "SIZE" followed by "="	
0x564	HTML Attribute "SPAN" followed by "="	
0x565	HTML Attribute "SRC" followed by "="	
0x566	HTML Attribute "STANDBY" followed by "="	
0x567	HTML Attribute "START" followed by "="	
0x568	HTML Attribute "STYLE" followed by "="	
0x569	HTML Attribute "SUMMARY" followed by "="	
0x56A	HTML Attribute "TABINDEX" followed by "="	

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0x56B	HTML Attribute "TARGET" followed by "="		
0x56C	HTML Attribute "TEXT" followed by "="		
0x56D	HTML Attribute "TITLE" followed by "="		
0x56E	HTML Attribute "TYPE" followed by "="		
0x56F	HTML Attribute "USEMAP" followed by "="		
0x570	HTML Attribute "VALIGN" followed by "="		
0x571	HTML Attribute "VALUE" followed by "="		
0x572	HTML Attribute "VALUETYPE" followed by "="		
0x573	HTML Attribute "VERSION" followed by "="		
0x574	HTML Attribute "VLINK" followed by "="		
0x575	HTML Attribute "VSPACE" followed by "="		
0x576	HTML Attribute "WIDTH" followed by "="		
0x600	Single quote, closing an attribute value "		
0x700	Double quote, within an attribute value ""		
0x800	Carriage-return/Line-feed sequence		
0x900	Start of dynamic token definition		
0xA00 through 0xAFF	Reserved for dynamic assignment by compressor		

## Table B.

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Token

0x000 11000000100011100111000 0x001 11000000100011100111001 0x002 11000000100011100111010 0x003 11000000100011100111011 0x004 11000000100011100111100 0x005 11000000100011100111101 0x006 11000000100011100111110 0x007 11000000100011100111111 0x008 11000000100011101000000 0x009 1000110010 0x00A 110000001101101110 0x00B 11000000100011101000001 0x00C 11000000100011101000010 0x00D 110000001101101111 0x00E 11000000100011101000011 0x00F 11000000100011101000100 11000000100011101000101 0x010 0x011 11000000100011101000110 0x012 11000000100011101000111 0x013 11000000100011101001000 0x014 11000000100011101001001 0x015 11000000100011101001010

11000000100011101001011

11000000100011101001100

11000000100011101001101

11000000100011101001110

11000000100011101001111

Huffman Code

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0x016

0x017

0x018

0x019

0x01A

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0x01B 11000000100011101010000 0x01C 11000000100011101010001 0x01D 11000000100011101010010 0x01E 11000000100011101010011 0x01F 11000000100011101010100 0x020 001 0x021 100011010 0x022 010001011 0x023 1101110111 0x024 1101111110111000 0x025 0100010010 0x026 100001101 0x027 11011100 0x028 01110011 0x029 01111000 0x02A 110000001110 0x02B 110111011001 0x02C 0100011 0x02D 1111011 0x02E 111000 0x02F 111001 0x030 1111001 0x031 0111101 0x032 10110100 0x033 110010110 0x034 00010001 0x035 110111111 0x036 110010001 0x037 011100001

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0x038	011100101
0x039	110000010
0x03A	11110001
0x03B	011100011
0x03C	100011000
0x03D	11011110
0x03E	100001100
0x03F	100001010
0x040	1000010110011
0x041	10110101
0x042	000100001
0x043	00010100
0x044	110010101
0x045	111100000
0x046	111100001
0x047	0111001000
0x048	1101110101
0x049	110010010
0x04A	11011111010
0x04B	01111001100
0x04C	101100110
0x04D	110010011
0x04E	100001001
0x04F	1100101001
0x050	10110001
0x051	011100010111
0x052	00010111
0x053	10110000

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0x054

0x055	1100100000
0x056	10110011111
0x057	1101110100
0x058	011100010101
0x059	00010000001
0x05A	1011001110011
0x05B	1101110110000
0x05C	10110010
0x05D	1100101000001
0x05E	01110001011010111
0x05F	10000111
0x060	010001001100111110011
0x061	11111
0x062	010000
0x063	01001
0x064	110001
0x065	1010
0x066	100000
0x067	1100001
0x068	01101
0x069	0000
0x06A	110000000
0x06B	00010110
-0x06C	01100
0x06D	110110
0x06E	10111
0x06F	0101
0x070	00011

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0x071

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0x072	11101
0x073	11010
0x074	1001
0x075	100010
0x076	1011011
0x077	110011
0x078	00010101
0x079	1000111
0x07A	10000101101
0x07B	11000000111100
0x07C	1011001110001
0x07D	11000000110111
0x07E	110000001001
0x07F	11000000100011101010101
0x080	11000000100011101010110
0x081	11000000100011101010111
0x082	11000000100011101011000
0x083	11000000100011101011001
0x084	11000000100011101011010
0x085	1100000010000110101
0x086	11000000 <u>1</u> 00011101011011
0x087	01111001101100010110
0x088	11000000100011101011100
0x089	11000000100011101011101
0x08A	11000000100011101011110
0x08B	110000001000111010111111
0x08C	11000000100011101100000
0x08D	11000000100011101100001
0x08E	11000000100011101100010

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0x08F	11000000100011101100011
0x090	11000000100011101100100
0x091	0111000101100001
0x092	0001000001011
0x093	011110011011000101110
0x094	011110011011000101111
0x095	11000000100011101100101
0x096	0111000101101011001
0x097	011110011011000110000
0x098	11000000100011101100110
0x099	1100000011110110001
0x09A	11000000100011101100111
0x09B	11000000100011101101000
0x09C	11000000100011101101001
0x09D	11000000100011101101010
0x09E	11000000100011101101011
0x09F	11000000100011101101100
0x0A0	110000001000000
0x0A1	11000000100011101101101
0x0A2	11000000100011101101110
0x0A3	110000001111011100111
0x0A4	11000000100011101101111
0x0A5	11000000100011101110000
0x0A6	11000000100011101110001
0x0A7	11000000100001100

11000000100011101110011

11000000100011101110100

1000010110010010101

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0x0A8

0x0A9

0x0AA

0x0AB

0x0AC	11000000100011101110101
0x0AD	11000000100011101110110
0x0AE	11000000110110110
0x0AF	11000000100011101110111
0x0B0	1100000010000110100
0x0B1	11000000100011101111000
0x0B2	011110011011000110001
0x0B3	110000010001110  11001
0x0B4	1100000100011101111010
0x0B5	011110011011000110010
0x0B6	1100000010001110+111011
0x0B7	1100000010001110+111100
0x0B8	11000000100011101111101
0x0B9	11000000100011101111110
0x0BA	110111110111010111110
0x0BB	110000001000111011111111
0x0BC	1100000100011110000000
0x0BD	1100000010001110010110
0x0BE	110000001000111110000001
0x0BF	11000000100011110000010
0x0C0	110000001000111100000011
0x0C1	1100000100011110000100
0x0C2	1100000100011110000101
0x0C3	1100000100011110000110
0x0C4	011110011011000110011
0x0C5	011110011011000110100
0x0C6	11000000100011110000111
0x0C7	11000000100011110001000
0x0C8	11000000100011110001001

0x0C9	11000000100011110001010
0x0CA	11000000100011110001011
0x0CB	11000000100011110001100
0x0CC	11000000100011110001101
0x0CD	11000000100011110001110
0x0CE	11000000100011110001111
0x0CF	11000000100011110010000
0x0D0	11000000100011110010001
0x0D1	11000000100011110010010
0x0D2	11000000100011110010011
0x0D3	11000000100011110010100
0x0D4	11000000100011110010101
0x0D5	11000000100011110010110
0x0D6	1100000011110111000
0x0D7	11000000100011110010111
0x0D8	11000000100011110011000
0x0D9	11000000100011110011001
0x0DA	11000000100011110011010
0x0DB	11000000100011110011011
0x0DC	11000000100011110011100
0x0DD	11000000100011110011101
0x0DE	11000000100011110011110
0x0DF	11000000100011110011111
0x0E0	11000000100011110100000
0x0E1	11000000100011110100001
0x0E2	11000000100011110100010
0x0E3	11000000100011110100011
0x0E4	1100000010001110010111
0x0E5	1101111101110010110

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0x0E6	11000000100011110100100
0x0E7	11000000100011110100101
0x0E8	11000000100011110100110
0x0E9	0100010011001111101
0x0EA	11000000100011110100111
0x0EB	11000000100011110101000
0x0EC	11000000100011110101001
0x0ED	11000000100011110101010
0x0EE	11000000100011110101011
 0x0EF	11000000100011110101100
0x0F0	11000000100011110101101
0x0F1	11000000100011110101110
0x0F2	11000000100011110101111
0x0F3	11000000100011110110000
0x0F4	11000000100011110110001
0x0F5	11000000100011110110010
0x0F6	1000110110001110100
0x0F7	11000000100011110110011
0x0F8	11000000100011110110100
0x0F9	11000000100011110110101
0x0FA	11000000100011110110110
0x0FB	11000000100011110110111
0x0FC	010001001100001100
0x0FD	11000000100011110111000
0x0FE	11000000100011110111001
0x0FF	11000000100011110111010
0x100	1111010001
0x101	11000000100011110111011
0x102	11000000100011110111100

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0x103	1101111101110101100
0x104	110000001000111000100
0x105	1011001110101
0x106	10001100111
0x107	100011011000111011
0x108	11000000100011110111101
0x109	11000000100011110111110
0x10A	100001011000010
0x10B	11011111011100110
0x10C	10001101100001
0x10D	1000110111
0x10E	11000000100011110111111
0x10F	110111110111010111111
0x110	11011101100011
0x111	10000101100010000
0x112	11011111011101111
0x113	110111110111011100000
0x114	011110011011000110101
0x115	01110010010
0x116	11000000100011111000000
0x117	11000000100011111000001
0x118	010001001100001101
0x119	11011111011101011010
0x11A	100011011011001000
0x11B	01110000000
0x11C	100011011000101
0x11D	11000000100011111000010
0x11E	100001000

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0x11F

0x13D	11000000100011111001010
0x13E	10110011110
0x13F	010001010
0x140	1101111101110010111
0x141	0111000101000010
0x142	11000000100011111001011
0x143	11000000100011111001100
0x144	11000000100011111001101
0x145	01111001101111
0x146	1000010110000110
0x147	1000110110111
0x148	110111110111011100010
0x149	11000000100011111001110
0x14A	011100100111
0x14B	1100000010001110011000
0x14C	011100010110000010
0x14D	01000100110000111
0x14E	1100000011111
0x14F	11000000100011111001111
0x150	110000011
0x151	11000000111101100111
0x152	11000000100011111010000
0x153	110000001100
0x154	11000000100011111010001
0x155	10001101101010
0x156	0111000100
0x157	011100010110101101
0x158	01110001011001

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0x159

4	S.

11000000100011111010010
1111010000
11000000100011111010011
11000000100011111010100
11011111011110101000
110000001000111000110
11000000100011111010101
10001100110
11000000100011111010110
11000000100011111010111
11000000100011111011000
1101111101110110
11011111011100111
10000101100011
011110011011000110111
11000000100011111011001
110111110111011100011
11011101100010
10000101100010001
0100010011000010
11000000100011111011010
011110011011000111000
0111100110110000
11000000100011111011011
11000000100011111011100
011100010110000000
0111000101101011000
100011011011001001
100001011001001011

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0x21C	100011011000110
0x21D	11000000100011111011101
0x21E	011110010
0x21F	1000010110010011
0x220	11000000100011111011110
0x221	011100010110000001
0x222	100001011001000
0x223	00010000010101
0x224	011100010110100
0x225	0111000101101010
0x226	0111100110110001010
0x227	110000001000111000111
0x228	10000101100101
0x229	11000000100011111011111
0x22A	10001101101101
0x22B	010001000000
0x22C	11000000100011111100000
0x22D	110000001000111111100001
0x22E	11000000100011111100010
0x22F	11000000100011111100011
0x230	11000000100011111100100
0x231	11000000100011111100101
0x232	010001001100101
0x233	11000000100011111100110
0x234	1100000011010
0x235	11000000100011111100111
0x236	11011111011100100
0x237	11000000100011111101000
0x238	11000000100011111101001

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0x239	110111110111011100100
0x23A	11000000100011111101010
0x23B	1100000010001110011001
0x23C	110000001000010
0x23D	11000000100011111101011
0x23E	101100111001011
0x23F	110111110110
0x240	11000000100011111101100
0x241	0111000101000011
0x242	11000000100011111101101
0x243	11000000100011111101110
0x244	11000000100011111101111
0x245	10000101100000
0x246	1000010110000111
0x247	1011001110000
0x248	110111110111011100101
0x249	11000000100011111110000
0x24A	011110011010
0x24B	1100000010001110011010
0x24C	011100010110000011
0x24D	01000100110011110
0x24E	1100101000000
0x24F	110000001000111111110001
0x250	110010111
0x251	11000000111101110010
0x252	11000000100011111110010
0x253	01000100110001
0x254	110000001000111111110011
0x255	10001101101011

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0x256	0111000001
0x257	100001011001001000
0x258	01110001011011
0x259	000100000100
0x25A	110000001000111111110100
0x25B	011111
0x400	110000001000111111110101
0x401	110000001000111111110110
0x402	11000000100011111110111
0x403	110000001000111111111000
0x404	110000001000111111111001
0x405	110000001000111111111010
0x406	110000001000111111111011
0x407	110000001000111111111100
0x408	110000001000111111111101
0x409	110000001000111111111110
0x40A	11000000100011111111111
0x40B	11000000110110100000000
0x40C	11000000110110100000001
0x40D	11000000110110100000010
0x40E	11000000110110100000011
0x40F	11000000110110100000100
0x410	11000000110110100000101
0x411	11000000110110100000110
0x412	11000000110110100000111
0x413	11000000110110100001000
0x414	11000000110110100001001
0x415	11000000110110100001010
0x416	11000000110110100001011

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0x417	11000000110110100001100
0x418	11000000110110100001101
0x419	11000000110110100001110
0x41A	11000000110110100001111
0x41B	11000000110110100010000
0x41C	11000000110110100010001
0x41D	11000000110110100010010
0x41E	11000000110110100010011
0x41F	11000000110110100010100
0x420	11000000110110100010101
0x421	11000000110110100010110
0x422	11000000110110100010111
0x423	11000000110110100011000
0x424	11000000110110100011001
0x425	11000000110110100011010
0x426	11000000110110100011011
0x427	11000000110110100011100
0x428	11000000110110100011101
0x429	11000000110110100011110
0x42A	11000000110110100011111
0x42B	11000000110110100100000
0x42C	11000000110110100100001
0x42D	11000000110110100100010
0x42E	11000000110110100100011
0x42F	11000000110110100100100
0x430	11000000110110100100101
0x431	11000000110110100100110
0x432	11000000110110100100111
0x433	11000000110110100101000

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0x434	11000000110110100101001
0x435	11000000110110100101010
0x436	11000000110110100101011
0x437	11000000110110100101100
0x438	11000000110110100101101
0x439	11000000110110100101110
0x43A	11000000110110100101111
0x43B	11000000110110100110000
0x43C	11000000110110100110001
0x43D	11000000110110100110010
0x43E	11000000110110100110011
0x43F	11000000110110100110100
0x440	11000000110110100110101
0x441	11000000110110100110110
0x442	11000000110110100110111
0x443	11000000110110100111000
0x444	11000000110110100111001
0x445	11000000110110100111010
0x446	11000000110110100111011
0x447	110000001101101001111100
0x448	11000000110110100111101
0x449	11000000110110100111110
0x44A	11000000110110100111111
0x44B	11000000110110101000000
0x44C	11000000110110101000001
0x44D	11000000110110101000010
0x44E	11000000110110101000011
0x44F	11000000110110101000100
0x450	11000000110110101000101

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0x451	11000000110110101000110
0x452	11000000110110101000111
0x453	11000000110110101001000
0x454	11000000110110101001001
0x455	11000000110110101001010
0x456	11000000110110101001011
0x457	11000000110110101001100
0x458	11000000110110101001101
0x459	11000000110110101001110
0x45A	11000000110110101001111
0x45B	11000000110110101010000
0x45C	11000000110110101010001
0x45D	11000000110110101010010
0x45E	11000000110110101010011
0x45F	11000000110110101010100
0x460	11000000110110101010101
0x461	11000000110110101010110
0x462	11000000110110101010111
0x463	11000000110110101011000
0x464	11000000110110101011001
0x465	11000000110110101011010
0x466	11000000110110101011011
0x467	110000001101101010111100
0x468	110000001101101010111101
0x469	11000000110110101011110
0x46A	110000001101101010111111
0x46B	11000000110110101100000
0x46C	1100000110110101100001

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0x46D

0x46E	11000000110110101100011
0x46F	11000000110110101100100
0x470	11000000110110101100101
0x471	11000000110110101100110
0x472	11000000110110101100111
0x473	11000000110110101101000
0x474	11000000110110101101001
0x475	11000000110110101101010
0x476	11000000110110101101011
0x500	11000000110110101101100
0x501	11000000110110101101101
0x502	11000000110110101101110
0x503	11000000110110101101111
0x504	0111100110110010
0x505	1111010011
0x506	1100000010000111
0x507	110010100001
0x508	11000000110110101110000
0x509	11000000110110101110001
0x50A	011100010110001
0x50B	1000110110010
0x50C	110111011010
0x50D	1000110110100
0x50E	10110011101001
0x50F	11000000110110101110010
0x510	11000000110110101110011
0x511	11000000100011100000
0x512	1000110110110011
0x513	11000000110110101110100

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0x514	01000100001
0x515	011110011011000111001
0x516	110000001111011101
0x517	110000001000111001000
0x518	110000001000111001001
0x519	11000000110110101110101
0x51A	11000000101
0x51B	100011011011001011
0x51C	0111000101001
0x51D	11000000110110101110110
0x51E	10110011101000
0x51F	1011001110110
0x520	11000000110110101110111
0x521	110000001101101011111000
0x522	11000000110110101111001
0x523	110000001101101011111010
0x524	11000000110110101111011
0x525	110000001101101011111100
0x526	1100000010001110011011
0x527	1111010010
0x528	010001001100110
0x529	11011111011101011011
0x52A	011110011011000111010
0x52B	110000001101101011111101
0x52C	0100010001
0x52D	1101111100
0x52E	110000001101101011111110
0x52F	110000001111010
0x530	100011011011000

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0x5	31	010001001100000
0x5	32	110000001101101011111111
0x5	33	11000000111101100000000
0x5	34	110000001000011011
0x5	35	01111001101110
0x5	36	110000001000110
0x5	37	11000000111101100000001
0x5	38	100011011000111000
0x5	39	100001011001001001
0x5	3 <b>A</b>	110111110111001010
0x5	3B	11000000111101100000010
0x5	3C	0111100110110011
0x5	3D	11000000111101100000011
0x5	3E	01110000001
0x5	3F	11000000111101100000100
0x5	40	11000000111101100000101
0x54	41	11000000111101100000110
0x54	42	11000000111101100000111
0x54	43	11000000111101100001000
0x54	14	11000000111101100001001
0x54	45	1100000011110110010
0x54	46	1101111101110101001
0x54	47	11000000111101100001010
0x54	48	11000000111101100001011
0x54	49	11000000111101100001100
0x54	4A	011110011011000111011
0x54	4B	11000000100011100001
0x54	4C	11011111011101011100
0x54	4D	11000000111101100001101

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	0x54E	11000000111101100001110
	0x54F	01110001010001
	0x550	01111001101101
	0x551	11000000111101100001111
	0x552	11000000111101100110000
	0x553	11000000111101100110001
	0x554	110111110111011100110
	0x555	11000000111101100110010
	0x556	11000000111101100110011
	0x557	11000000111101100110100
	0x558	11000000111101100110101
	0x559	11011111011101011101
ſ	0x55A	110111110111011100111
Ī	0x55B	1000110110110010100
	0x55C	11000000111101101
ſ	0x55D	110111110111010111110
	0x55E	11000000111101100110110
	0x55F	11000000111101100110111
	0x560	100011011000111001
	0x561	01000100110011111000
ſ	0x562	1011001110111
Ī	0x563	1000010111
Ī	0x564	11000000111101110011000
	0x565	110111011011
	0x566	11000000111101110011001
	0x567	0100010011001110
	0x568	11011111011101000
	0x569	11000000111101110011010
	0x56A	11000000111101110011011
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6.0 4.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1		
74 4 <b>2</b> 0		

0x56B	110000001101100
0x56C	100011011000100
0x56D	011110011011000100
0x56E	011100100110
0x56F	110111110111010101
0x570	01000100111
0x571	11001010001
0x572	110000001000111001010
0x573	0100010011001111100100
0x574	101100111001010
0x575	11011111011101001
0x576	1100100001
0x600	011101
0x700	0100010011001111100101
0x800	11110101
0x900	100001011001001010011111110
0xA00	100001011001001010011111111
0xA01	01111001101100011110000000
0xA02	01111001101100011110000001
0xA03	011110011011000111110000010
0xA04	01111001101100011110000011
0xA05	01111001101100011110000100
0xA06	01111001101100011110000101
0xA07	01111001101100011110000110
0xA08	01111001101100011110000111
0xA09	011110011011000111110001000
0xA0A	011110011011000111110001001
0xA0B	01111001101100011110001010
0xA0C	01111001101100011110001011

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0xA0D	01111001101100011110001100
0xA0E	01111001101100011110001101
0xA0F	01111001101100011110001110
0xA10	01111001101100011110001111
0xA11	01111001101100011110010000
0xA12	01111001101100011110010001
0xA13	01111001101100011110010010
0xA14	01111001101100011110010011
0xA15	01111001101100011110010100
0xA16	011110011011000111110010101
0xA17	01111001101100011110010110
0xA18	01111001101100011110010111
0xA19	01111001101100011110011000
0xA1A	01111001101100011110011001
0xA1B	01111001101100011110011010
0xA1C	01111001101100011110011011
0xA1D	01111001101100011110011100
0xA1E	01111001101100011110011101
0xA1F	01111001101100011110011110
0xA20	01111001101100011110011111
0xA21	01111001101100011110100000
0xA22	01111001101100011110100001
0xA23	01111001101100011110100010
0xA24	01111001101100011110100011
0xA25	01111001101100011110100100
0xA26	01111001101100011110100101
0xA27	01111001101100011110100110
0xA28	01111001101100011110100111

 $\mathbf{0} 1.111001101100011110101000$ 

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0xA29

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0xA2A	01111001101100011110101001
0xA2B	01111001101100011110101010
0xA2C	01111001101100011110101011
0xA2D	01111001101100011110101100
0xA2E	01111001101100011110101101
0xA2F	01111001101100011110101110
0xA30	01111001101100011110101111
0xA31	01111001101100011110110000
0xA32	01111001101100011110110001
0xA33	01111001101100011110110010
0xA34	01111001101100011110110011
0xA35	01111001101100011110110100
0xA36	01111001101100011110110101
0xA37	01111001101100011110110110
0xA38	01111001101100011110110111
0xA39	01111001101100011110111000
0xA3A	0111100110110001
0xA3B	01111001101100011110111010
0xA3C	01111001101100011110111011
0xA3D	01111001101100011110111100
0xA3E	01111001101100011110111101
0xA3F	01111001101100011110111110
0xA40	01111001101100011110111111
0xA41	011110011011000111111000000
0xA42	01111001101100011111000001
0xA43	01111001101100011111000010
0xA44	01111001101100011111000011
0xA45	011110011011000111111000100
0xA46	01111001101100011111000101

	0xA47	01111001101100011111000110
	0xA48	01111001101100011111000111
	0xA49	01111001101100011111001000
-	0xA4A	0111100110110001+111001001
	0xA4B	01111001101100011111001010
	0xA4C	01111001101100011111001011
	0xA4D	01111001101100011111001100
	0xA4E	01111001101100011111001101
I	0xA4F	01111001101100011111001110
	0xA50	01111001101100011111001111
	0xA51	01111001101100011111010000
	0xA52	01111001101100011111010001
	0xA53	01111001101100011111010010
	0xA54	01111001101100011111010011
	0xA55	01111001101100011111010100
	0xA56	01111001101100011111010101
	0xA57	01111001101100011111010110
	0xA58	01111001101100011111010111
	0xA59	01111001101100011111011000
	0xA5A	01111001101100011111011001
	0xA5B	01111001101100011111011010
	0xA5C	01111001101100011111011011
Ī	0xA5D	01111001101100011111011100
	0xA5E	01111001101100011111011101
ĺ	0xA5F	011110011011000111111011110
	0xA60	01111001101100011111011111
	0xA61	01111001101100011111100000
Ī	0xA62	011110011011000111111100001
	0xA63	011110011011000111111100010

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	0.010	
	0xA65	011110011011000111111100100
	0xA66	01111001101100011111100101
	0xA67	01111001101100011111100110
	0xA68	01111001101100011111100111
	0xA69	0111100110110001+1+1101000
	0xA6A	01111001101100011111101001
	0xA6B	01111001101100011111101010
	0xA6C	0111100110110001++11101011
	0xA6D	011110011011000111111101100
	0xA6E	01111001101100011111101101
	0xA6F	01111001101100011111101110
	0xA70	0111100110110001+1+1101111
	0xA71	01111001101100011111110000
	0xA72	011110011011000111111110001
	0xA73	011110011011000111111110010
	0xA74	01111001101100011111110011
;	0xA75	011110011011000111111110100
	0xA76	0111100110110001+111110101
	0xA77	0111100110110001+111+10110
	0xA78	011110011011000111111110111
	0xA79	01111001101100011111111000
	0xA7A	01111001101100011111111001
	0xA7B	011110011011000111111111010
	0xA7C	011110011011000111111111011
	0xA7D	01111001101100011111111100
	0xA7E	01111001101100011111111101
İ	0xA7F	0111100110110001;;;[11111110

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0111100110110001111111111111

0xA80

	0xA82	10000101100100101000000001
	0xA83	10000101100100101000000010
	0xA84	100001011001001010000000011
5	0xA85	10000101100100101000000100
	0xA86	100001011001001010000000101
	0xA87	10000101100100101000000110
	0xA88	10000101100100101000000111
	0xA89	10000101100100101000001000
10	0xA8A	10000101100100101000001001
	0xA8B	10000101100100101000001010
···	0xA8C	10000101100100101000001011
	0xA8D	10000101100100101000001100
4	0xA8E	10000101100100101000001101
4	0xA8F	10000101100100101000001110
	0xA90	10000101100100101000001111
Å	0xA91	10000101100100101000010000
	0xA92	10000101100100101000010001
å Å	0xA93	10000101100100101000010010
<del>-</del> 20	0xA94	10000101100100101000010011
50 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0xA95	10000101100100101000010100
	0xA96	10000101100100101000010101
	0xA97	10000101100100101000010110
	0xA98	10000101100100101000010111
25 .	0xA99	10000101100100101000011000
	0xA9A	10000101100100101000011001
	0xA9B	10000101100100101000011010

0xA81

100001011001001010000000000

10000101100100101000011011

10000101100100101000011100

0xA9C

0xA9D

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The start wind that were then that these	.5	
	:0	

0xA9E	10000101100100101000011101
0xA9F	10000101100100101000011110
0xAA0	10000101100100101000011111
0xAA1	10000101100100101000100000
0xAA2	10000101100100101000100001
0xAA3	10000101100100101000100010
0xAA4	10000101100100101000100011
0xAA5	10000101100100101000100100
0xAA6	10000101100100101000100101
0xAA7	10000101100100101000100110
0xAA8	10000101100100101000100111
0xAA9	10000101100100101000101000
0xAAA	10000101100100101000101001
0xAAB	10000101100100101000101010
0xAAC	10000101100100101000101011
0xAAD	10000101100100101000101100
0xAAE	100001011001001010000101101
0xAAF	10000101100100101000101110
0xAB0	10000101100100101000101111
0xAB1	10000101100100101000110000
0xAB2	10000101100100101000110001
0xAB3	10000101100100101000110010
0xAB4	10000101100100101000110011
0xAB5	10000101100100101000110100
0xAB6	10000101100100101000110101
0xAB7	10000101100100101000110110
0xAB8	10000101100100101000110111
0xAB9	10000101100100101000111000
0xABA	10000101100100101000111001

	0xABD	1000010
	0xABE	1000010
. 5	0xABF	1000010
	0xAC0	1000010
	0xAC1	1000010
	0xAC2	1000010
	0xAC3	<b>1000</b> 010
10	0xAC4	1000010
	0xAC5	1000010
<b>5</b> 5.	0xAC6	1000010
الله الله الله الله الله الله الله الله	0xAC7	1000010
	0xAC8	1000010
ាំ ១ 5	0xAC9	1000010
<b>G</b>	0xACA	1000010
ä	0xACB	1000010
######################################	0xACC	1000010
<del>L</del>	0xACD	1000010
	0xACE	1000010
a A	0xACF	1000010
	0xAD0	1000010
	0xAD1	1000010
	0xAD2	1000010
25	0xAD3	1000010

0xABB	10000101100100101000111010
0xABC	10000101100100101000111011
0xABD	10000101100100101000111100
0xABE	10000101100100101000111101
0xABF	10000101100100101000111110
0xAC0	10000101100100101000111111
0xAC1	10000101100100101001000000
0xAC2	10000101100100101001000001
0xAC3	10000101100100101001000010
0xAC4	10000101100100101001000011
0xAC5	10000101100100101001000100
0xAC6	10000101100100101001000101
0xAC7	10000101100100101001000110
0xAC8	10000101100100101001000111
0xAC9	10000101100100101001001000
0xACA	10000101100100101001001001
0xACB	10000101100100101001001010
0xACC	10000101100100101001001011
0xACD	10000101100100101001001100
0xACE	10000101100100101001001101
0xACF	10000101100100101001001110
0xAD0	10000101100100101001001111
0xAD1	10000101100100101001010000
0xAD2	10000101100100101001010001
0xAD3	10000101100100101001010010
0xAD4	10000101100100101001010011
0xAD5	10000101100100101001010100
0xAD6	10000101100100101001010101
0xAD7	10000101100100101001010110

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0xAD8	10000101100100101001010111
0xAD9	10000101100100101001011000
0xADA	10000101100100101001011001
0xADB	10000101100100101001011010
0xADC	10000101100100101001011011
0xADD	10000101100100101001011100
0xADE	10000101100100101001011101
0xADF	10000101100100101001011110
0xAE0	10000101100100101001011111
0xAE1	10000101100100101001100000
0xAE2	10000101100100101001100001
0xAE3	10000101100100101001100010
0xAE4	10000101100100101001100011
0xAE5	10000101100100101001100100
0xAE6	10000101100100101001100101
0xAE7	10000101100100101001100110
0xAE8	10000101100100101001100111
0xAE9	10000101100100101001101000
0xAEA	10000101100100101001101001
0xAEB	10000101100100101001101010
0xAEC	10000101100100101001101011
0xAED	10000101100100101001101100
0xAEE	10000101100100101001101101
0xAEF	10000101100100101001101110
0xAF0	10000101100100101001101111
0xAF1	10000101100100101001110000
0xAF2	10000101100100101001110001
0xAF3	10000101100100101001110010
0xAF4	10000101100100101001110011

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0xAF5	10000101100100101001110100
0xAF6	10000101100100101001110101
0xAF7	10000101100100101001110110
0xAF8	10000101100100101001110111
0xAF9	10000101100100101001111000
0xAFA	10000101100100101001111001
0xAFB	10000101100100101001111010
0xAFC	10000101100100101001111011
0xAFD	10000101100100101001111100
0xAFE	10000101100100101001111101
0xAFF	10000101100100101001111110

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